

Abstract

An optoelectronic device and a method of making same. The optoelectronic device comprises a substrate, at least one dielectric waveguide in the substrate, and at least one active semiconductor layer physically bonded to the substrate and optically coupled to the at least one dielectric waveguide in the substrate, the at least one active semiconductor layer being able to generate light, detect light, amplify light or otherwise modulate amplitude or phase of light.